Data Sheet (Cat.No.T25114)

TargetMol

Ascaridole

Chemical Properties

CAS No. :	512-85-6
Formula:	C10H16O2
Molecular Weight:	168.23
Storage:	Keep away from direct sunlight,Keep away from moisture Pure form: -20°C for 3 years | In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	Ascaridole (NSC-406266) acts as an anthelmintic compound that repels parasitic helminths (worms) in humans and plants and has weak antimalarial activity.
Targets(IC50)	Parasite

Solubility Information

Solubility	DMSO: 245 mg/mL (1456.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (11.89 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.9442 mL	29.7212 mL	59.4424 mL
5 mM	1.1888 mL	5.9442 mL	11.8885 mL
10 mM	0.5944 mL	2.9721 mL	5.9442 mL
50 mM	0.1189 mL	0.5944 mL	1.1888 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Efferth T, et al. Activity of ascaridol from the anthelmintic herb Chenopodium anthelminticum L. against sensitive and multidrug-resistant tumor cells. Anticancer Res. 2002;22(6C):4221-4224.
Abbasi R, et al. The endoperoxide ascaridol shows strong differential cytotoxicity in nucleotide excision repair-deficient cells. Toxicol Appl Pharmacol. 2012;259(3):302-310.
Pollack Y, et al. The effect of ascaridole on the in vitro development of Plasmodium falciparum. Parasitol Res. 1990;76(7):570-572.
Abbasi R, et al. The endoperoxide ascaridol shows strong differential cytotoxicity in nucleotide excision repair-deficient cells. Toxicol Appl Pharmacol. 2012;259(3):302-310.